

What is claimed is:

1. A fuel injection valve for opening and closing a needle valve by driving an armature by a solenoid, comprising a buffer portion, for damping the change of fuel pressure when the needle valve is closed, provided at a portion of said armature contacting the fuel, on the upstream side from an end of a nozzle opening side.

2. A fuel injection valve according to claim 1, wherein an elastic member is provided between a sleeve disposed between a core and a valve holder of a solenoid, and said core, to form said buffer portion.

3. A fuel injection valve according to claim 1, wherein an elastic member is provided between a sleeve disposed between a valve holder and a valve holder of the solenoid and extending to the outer periphery of said valve holder, and said core, to form said buffer portion.

4. A fuel injection valve according to claim 1, wherein a coil case is provided between a core and a housing and adapted to seal, at the inner and outer diameter sides thereof, the core and the housing by O-rings, respectively, and a sleeve is provided on the inner diameter side of the coil case and forming an air gap between said sleeve and said valve body, wherein said buffer portion is formed by each of said O-rings.

5. A fuel injection valve according to claim 1, wherein said buffer portion is formed by enlarging the diameter of an O-ring inserted between a core and a housing on a nozzle opening side of a coil bobbin.

Add B1

Add 15B

Sub D2
Sub J1
"Sheet 160"